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DERWENT-WEEK: 200014  
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TITLE: Method of preparing compounded granular phosphorus  
containing  
fertilizers

INVENTOR: KLASSEN, P V; ZAVERTYAEVA, T I

PATENT-ASSIGNEE: NIUIF STOCK CO[NIUIR]

PRIORITY-DATA: 1997RU-0121483 (December 4, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES	MAIN-IPC	
RU 2121990 C1	November 20, 1998	N/A
000	C05G 001/06	

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
RU 2121990C1	N/A	1997RU-0121483
December 4, 1997		

INT-CL (IPC): C05G001/06

ABSTRACTED-PUB-NO: RU 2121990C

BASIC-ABSTRACT: NOVELTY - Claimed method comprises mixing phosphorus-containing component with nitrogen-containing additive and subsequently granulating mixture at elevated temperature. Phosphorus-containing component is mixed with nitrogen- containing component solution to attain N: P2O5: H2O ratio of 1:(0.04-0.7):(0.1-8.9) at 70-105 C, and the resulting suspension is granulated. It is desirable to use ammonium and/or calcium phosphates, phosphites as phosphorus-containing component, and to use ammonium nitrate and/or sulfate, and carbamide as nitrogen- containing component. During mixing operation,

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potassium-containing additive is also added. Suspension is granulated at 60-90

C. The claimed method makes it possible to produce wide range of fertilizers with high yield of commercial fraction up to 70-85%.

USE - Agriculture.

ADVANTAGE - Improved properties of the fertilizers. 4 cl,  
5 ex

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:

METHOD PREPARATION COMPOUND GRANULE PHOSPHORUS CONTAIN  
FERTILISER

DERWENT-CLASS: C04

CPI-CODES: C05-A01A; C05-B02A4; C05-C01; C10-A13C; C14-T03;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-049730

**METHOD OF PREPARING COMPOUNDED GRANULAR PHOSPHORUS CONTAINING FERTILIZERS**

Patent Number: RU2121990  
Publication date: 1998-11-20  
Inventor(s): KLASSEN P V;; ZAVERTJAEVA T I  
Applicant(s): OTKRYTOE AKTSIONERNOE OBSHCHESTVO  
Requested Patent: ☐ RU2121990  
Application Number: RU19970121483 19971204  
Priority Number(s): RU19970121483 19971204  
IPC Classification: C05G1/06  
EC Classification:  
Equivalents:

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**Abstract**

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FIELD: agriculture. SUBSTANCE: claimed method comprises mixing phosphorus-containing component with nitrogen-containing additive and subsequently granulating mixture at elevated temperature. Phosphorus-containing component is mixed with nitrogen-containing component solution to attain N: P<sub>2</sub>O<sub>5</sub>: H<sub>2</sub>O ratio of 1:(0.04-0.7):(0.1-8.9) at 70-105 C, and the resulting suspension is granulated. It is desirable to use ammonium and/or calcium phosphates, phosphites as phosphorus-containing component, and to use ammonium nitrate and/or sulfate, and carbamide as nitrogen-containing component. During mixing operation, potassium-containing additive is also added. Suspension is granulated at 60-90 C. The claimed method makes it possible to produce wide range of fertilizers with high yield of commercial fraction up to 70-85%. EFFECT: improved properties of the fertilizers. 4 cl, 5 ex

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<p>2000-159459/14 C04 NIUI= 1997.12.04  NIUIF STOCK CO *RU 2121990-C1  1997.12.04 1997-121483(+1997RU-121483) (1998.11.20) C05G 1/06  Method of preparing compounded granular phosphorus  containing fertilizers  C2000-049730  Addnl. Data: KLASSEN P V, ZAVERTYAEVA T I</p>	<p>C(5-A1A, 5-B2A4, 5-C1, 10-A13C, 14-T3) .5</p>
<p><b>NOVELTY</b>  Claimed method comprises mixing phosphorus-containing component with nitrogen-containing additive and subsequently granulating mixture at elevated temperature. Phosphorus-containing component is mixed with nitrogen- containing component solution to attain N: P2O5: H2O ratio of 1:(0.04-0.7):(0.1-8.9) at 70-105 C, and the resulting suspension is granulated. It is desirable to use ammonium and/or calcium phosphates, phosphites as phosphorus-containing component, and to use ammonium nitrate and/or sulfate, and carbamide as nitrogen- containing component. During mixing operation, potassium-containing additive is also added. Suspension is granulated at 60-90 C. The claimed method makes it possible to produce wide range of fertilizers with high yield of commercial fraction up to 70-85%.</p>	<p><b>USE</b>  Agriculture.</p> <p><b>ADVANTAGE</b>  Improved properties of the fertilizers. 4 cl, 5 ex (9999DwgNo.0/0)</p> <p>RU 2121990-C</p>

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